



# QUANTA

## 30 KW



*High technology 30 KW EM Transmitter*

The FOX 30kw is realised with technology ICEFET, that allows drastic decrease of the temperature to a sensitive reduction of the consumptions.

Fox 30Kw is a system of total quality thanks to a diagnostic remote, fast and capillary assistance, low consumptions, duration in the time and it is easy to use.

Combining the basic form Eagle 2500 we have gotten transmitters from 2Kw to 30Kw in configurations from 1+0 to N+1. All the components of the series shared the same characteristics to the RF module, power supply, logics of control, systems of protection, derating, facility of installation and simplicity of setup. The advantages of the module systems are as follows:

- All technological improvement on the basic product is directly transferred on the apparatuses of the serie
- Automatic diffusion of the knowledges and maintenance
- Interchangeability and independence of the each module base
- Common parts of exchange on the whole series

System of the power supply switching by PFC (380 V. three-phases), high efficiency. Logic proportional protection without interruption of the operation, predisposition for telemetry

The FOX 30Kw is composed by:

12 x Eagle 2k5, 2 combiners in 6 input, + high power combiner + Fox 500, Group fan aspiration of series, Rack from 35 U.

### TECHNICAL CHARACTERISTICS

Frequency range:	87.5 - 108 MHz
Low pass filter:	Band 87.5 MHz - 108 MHz
Corrosion	All the mecanical part are yellow alluminium
Measure point	Monitor RF
Visualized parameters	More than 50 visualized parameters on display LCD
Setting parameters operation	From the frontal panel through encoders and LCD
CPU	Yes
Redundance power supply	yes
Redundance fan Ventole	yes
Transistors	ICEFET
Type of transistors	St Microelettronics SD2942
<b>CONNECTORS</b>	
Output RF connectors	3+ 1/8"
Input rf connectors	N
Audio input chanel L/R	XLR female
Imput connector MPX	BNC female
Connector SCA	BNC female
<b>RF BLOCK</b>	
General stability of the output power	+/-0,1 dB
Output Impedenza	50 ohm
Armonich suppression	> 70 dB
Spurie suppression	> 80 dB
Imput impedance	50 ohm
Gain	18dB
Threshold of ROS Software	11 % output power
Threshold of ROS fast hardware	11 %
AM residua asincrona	0,10%
AM residua sincrona	0,20%
Efficiency	65% tip.
<b>COOLING SYSTEM</b>	
Different temperature of the air in entrance / gone out	15 °C
Type of cooling	Forced air
<b>ENVIRONMENTAL CONDITIONS</b>	
Temperature (operativo)	0 - +45 °C
Temperature (non operativo)	-20 - +70 °C
Umidity (operativo)	95% a 40 °C
Umidity(non operativo)	90% a 65 °C
Altitudine (operativo)	>4.600 metri
Altitudine (non operativo)	>15.000 metri



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